

# NEW EURO CARGO

## TECHNICAL DESCRIPTION EURO 3



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ML I10EL18-E3 - Chassis Cab 4x2

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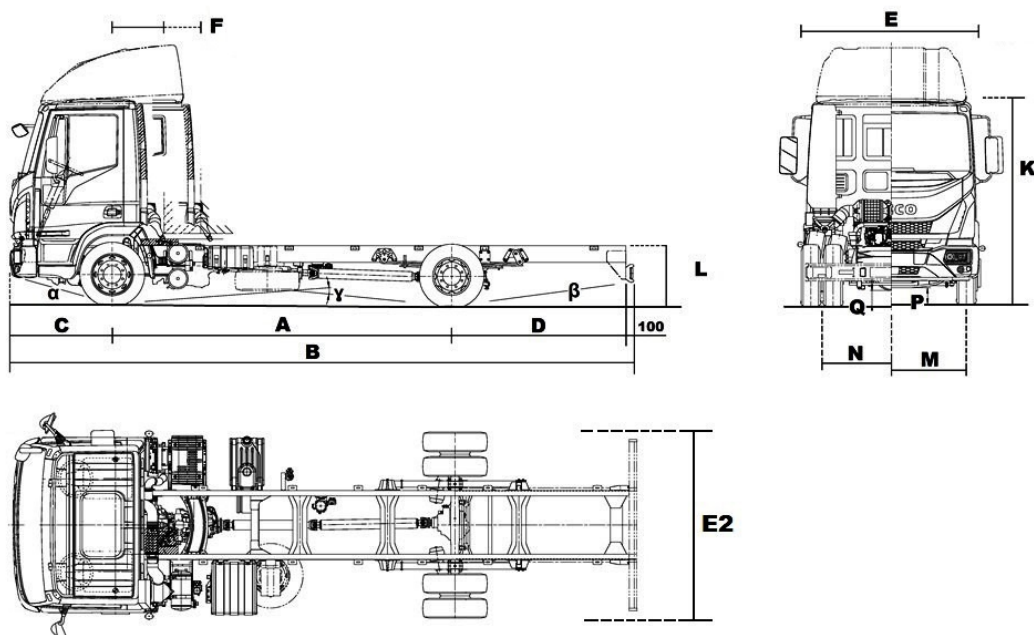
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**LIST OF LINKED VCB**

<b>VCB code</b>	<b>Gearbox</b>	<b>Wheelbase</b>	<b>Cabin</b>	<b>Drive</b>
V2FAC2C1	6S 700 TO	3105	MLC-NM SX	LH
V2FAC3C1	6S 700 TO	3330	MLC-NM SX	LH
V2FAC4C1	6S 700 TO	3690	MLC-NM SX	LH
V2FAC4C2	6S 700 TO	3690	MLL-NM SX	LH
V2FAC5C1	6S 700 TO	4185	MLC-NM SX	LH
V2FAC5C2	6S 700 TO	4185	MLL-NM SX	LH
V2FAC6C1	6S 700 TO	4455	MLC-NM SX	LH
V2FAC6C2	6S 700 TO	4455	MLL-NM SX	LH
V2FAC7C1	6S 700 TO	4815	MLC-NM SX	LH
V2FAC7C2	6S 700 TO	4815	MLL-NM SX	LH

## DIMENSIONS & WEIGHTS



### DIMENSIONS (mm)

Wheelbase (A)	3105 MLC	3330 MLC	3690 MLC	4185 MLC	4455 MLC	4815 MLC	3690 MLL	4185 MLL	4455 MLL	4815 MLL
Overall length (over rear underrun protection) (B)	5790	6532	6892	7702	8107	8692	6892	7702	8107	8692
Max width over wings (cab) (E)	2160	2160	2160	2160	2160	2160	2160	2160	2160	2160
Overall width (rear tyres) (E2)	2295	2295	2295	2295	2295	2295	2295	2295	2295	2295
Front axle to back of cab - including filter (F)	640	640	640	640	640	640	1090	1090	1090	1090
Frame height at end of frame, unladen (L)	932	945	940	941	941	941	941	942	942	942
Frame height at front axle, unladen	778	778	777	776	775	774	773	772	771	769
Frame height at rear axle, unladen	886	886	886	885	885	884	885	884	884	884
Front overhang (C)	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272
Rear overhang (D)	1313	1830	1830	2145	2280	2505	1830	2145	2280	2505
Minimum ground clearance (front) (P)	170	170	170	170	170	170	170	170	170	170
Minimum ground clearance (rear) (Q)	172	172	172	172	172	172	172	172	172	172
Overall height to top of cab, unladen (K)	2596	2596	2594	2593	2592	2591	2590	2589	2588	2587
Turning diameter kerb to kerb	10910	11570	12630	14090	14880	15940	12630	14090	14880	15940
Turning diameter wall to wall	12180	12850	13910	15370	16160	17230	13910	15370	16160	17230
Front track (M)	1827	1827	1827	1827	1827	1827	1827	1827	1827	1827
Rear track (N)	1745	1745	1745	1745	1745	1745	1745	1745	1745	1745
Approach angle $\alpha$ (°)	16	16	16	16	16	16	16	16	16	16
Departure angle $\beta$ (°)	13	10	10	9	8	8	10	9	8	8
Departure angle $\beta^*$ (°)	12	9	9	8	7	7	11	8	7	7
Ramp angle $\gamma$ (°)	14	13	11	10	9	9	9	10	9	9
Side members thickness	5	5	5	6	6	6	5	6	6	6
Side members max height	205	205	205	207	207	207	205	207	207	207
Side members flange width	65	65	65	65	65	65	65	65	65	65
Frame width at front	850	850	850	852	852	852	850	852	852	852
Frame width at rear	850	850	850	852	852	852	850	852	852	852

WEIGHTS (KG)

Wheelbase	3105 MLC	3330 MLC	3690 MLC	4185 MLC	4455 MLC	4815 MLC	3690 MLL	4185 MLL	4455 MLL	4815 MLL
Total vehicle kerb weight	3905	3930	3690	4020	4040	4095	4090	4150	4170	4225
Kerbweight on Front Axle	2700	2700	2730	2765	2775	2810	2840	2875	2885	2925
Kerbweight on Rear Axle	1205	1230	1230	1255	1265	1285	1250	1275	1285	1300
G.V.W. (EC)	11000	11000	11000	11000	11000	11000	11000	11000	11000	11000
G.V.W. (Design)	11000	11000	11000	11000	11000	11000	11000	11000	11000	11000
Plated weight on front axle (EC)	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Plated weight on front axle (Design)	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Plated weight on rear axle(s) (EC)	7600	7600	7600	7600	7600	7600	7600	7600	7600	7600
Plated weight on rear axle(s) (Design)	7600	7600	7600	7600	7600	7600	7600	7600	7600	7600
Trailer weight (inertia brake)	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
Max body & payload (Design)	7095	7070	7310	6980	6960	6905	6910	6850	6830	6775

Notes :

Weights are standard configuration and include: chassis cab, driver ( 75 Kg.), full fuel tank, oils, tools kit and spare wheel (if present).  
The values of GVW / GCW can vary according to the markets and the homologations.  
The height of the side member includes the thickness as well.

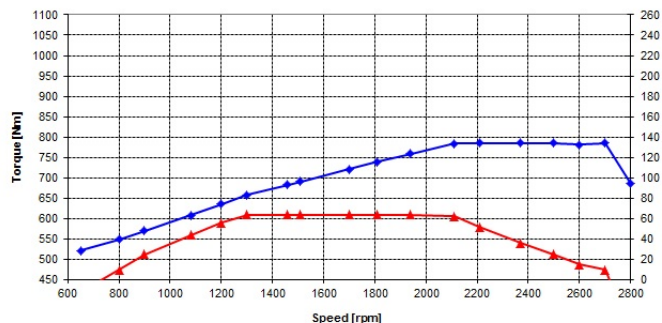
MLC			MLL		
Wheelbase	Type	Drawing	Wheelbase	Type	Drawing
3105	Left hand drive	5802281575	3690	Left hand drive	5802281578
3330	Left hand drive	5802281577	4185	Left hand drive	5802281579
3690	Left hand drive	5802281578	4455	Left hand drive	5802281581
4185	Left hand drive	5802281579	4815	Left hand drive	5802281582
4455	Left hand drive	5802281581			
4815	Left hand drive	5802281582			

## MODEL COMPONENTS

### ENGINE

Manufacturer	IVECO
Commercial name	TECTOR
Position	FRONT
Cycle	DIESEL
Aspiration type	TC+AFTERCOOLER
Injection type	DIRECT
4 Stroke / 2 Stroke cycle	4
No. of cylinders	6
Cylinders layout	IN-LINE
Valves per cylinder	4
Bore mm	102
Stroke mm	120
Total displacement cm <sup>3</sup>	5880
Weight (without oil / water) Kg	510
Oil capacity (l)	11.8
Type of fuel	DIESEL OIL
Injection system	HIGH PRESSURE / COMMON RAIL
Injection governor type	ELECTRONIC INTEGRATED WITH ECU
Cold starting type	THERMOSTARTER
Emissions control	EURO3
Speed limiter (Km/h)	90
Cruise control	All Speeds
Engine brake power (kW)	150
Engine brake (rpm)	3200
Cooling system	water
Fan type	viscstatic
Air intake	WITH SNORKEL
Snorkel position	Behind the cab, left side
Filter type	Dry - Heated
Air filter position	Behind the cabin

F4A 6 cylinder 134kW rating



### 180 E3 - Motore Tector6 - 5,9 l - 134Kw

Maximum power: 134 kW (182 HP) @ 2700 rpm

Maximum torque: null Kgm (610 Nm) @ 1300 rpm

## MODEL COMPONENTS

## DRIVELINE

## GEARBOX

Gearbox model	Gearbox Type	Installation	Box material	Total ratio speed	Dry weight Kg	Max input torque Nm	No. of forward gears	No. of reverse gears	No. of synchro gears
6S 700 TO	SYNCRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY	7.62	100	700	6	1	6
9S 75 TO	SYNCRONIZED	ENGINE FLANGED	ALUMINIUM ALLOY	13.10	125	900	9	1	9

## GEAR RATIOS

Gearbox model	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	rev. 1st								
6S 700 TO	6.02	3.32	2.07	1.4	1	0.79				5.58								
9S 75 TO	9.56	6.47	4.72	3.5	2.54	1.85	1.35	1	0.73	8.53								

## CLUTCH

Gearbox model	Type	Adjustment	Outer diameter mm	Outer diameter (inches)	Release control
6S 700 TO	SINGLE DRY PLATE	AUTOMATIC	362	14.25"	HYDRAULIC
9S 75 TO	SINGLE DRY PLATE	AUTOMATIC	395	15.5"	MECH./HYDRAULIC

## REAR AXLE RATIO

Option code	00011 *	02006	02009	02010	06007	06025	06029
Ratio	4.1	3.73	4.56	4.88	3.31	5.57	3.07

\*: Standard axle ratio

## TYRES &amp; WHEELS

Code	Tyres	Front	Rear	Load index	Rolling circumference m
20167	Standard	245/70R17,5	245/70R17,5	136/134	2.406
20124	Optional	265/70R17,5	265/70R17,5		2.48

## AXLES

Position	Description
Front	5845 - Iveco Axle
Rear	MS08-125 - Rear axle ArvinMeritor S.R.

## PERFORMANCE

\* Max Speed. Calculated speed on the basis of engine rpm and axle ratios. Real speed limits must take into account the speed index of the tyres: K = 110 km / h L = 120 km / h M = 130 km / h

\*\* Theoretically calculated values, arising from the engine torque without considering the road-friction values and the stability limits of the vehicles. When calculating with more than one tyres or more than one axle ratio, availability of each combination must be checked.

Speed and gradeability values are rounded.

A = Total Weights (solo vehicle) Kg - Max Gradeability %

B = Total Weights (vehicle+trailer) Kg - Max Gradeability %

Tyre: 20167 - TYRES ON ROAD/TRACTION	Efficiency: 0.85	No transfer box
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Gearbox model 6S 700 TO											
Axle Ratio	Gear Ratio 1°	Gear Ratio 6°	Speed km/h 1°	Speed km/h 6°	RPM at 80 km/h	RPM at 90 km/h	A		B		
							11000		14500		
							1°	6°	1°	6°	
3.73	6.02	0.79	17.26	131.50	1641	1846	28.72	2.34	21.24	1.61	
4.1	6.02	0.79	15.70	119.64	1804	2030	31.93	2.83	23.53	1.97	
4.56	6.02	0.79	14.12	107.57	2006	2257	36.05	3.39	26.44	2.40	
4.88	6.02	0.79	13.19	100.51	2147	2416	39.01	3.77	28.49	2.69	

Gearbox model 9S 75 TO											
Axle Ratio	Gear Ratio 1°	Gear Ratio 9°	Speed km/h 1°	Speed km/h 9°	RPM at 80 km/h	RPM at 90 km/h	A		B		
							11000		14500		
							1°	9°	1°	9°	
3.07	9.56	0.73	13.20	172.91	1248	1404	38.97	0.95	28.46	0.56	
3.31	9.56	0.73	12.25	160.37	1346	1514	42.61	1.34	30.95	0.85	
3.73	9.56	0.73	10.87	142.31	1517	1706	49.37	1.94	35.45	1.30	

## MODEL COMPONENTS

Axle Ratio	Gear Ratio 1°	Gear Ratio 9°	Speed km/h 1°	Speed km/h 9°	RPM at 80 km/h	RPM at 90 km/h	A		B	
							11000		14500	
							1°	9°	1°	9°
4.1	9.56	0.73	9.89	129.47	1667	1875	55.80	2.42	39.57	1.67
4.56	9.56	0.73	8.89	116.41	1854	2086	64.62	2.97	44.96	2.08
4.88	9.56	0.73	8.31	108.78	1984	2232	71.45	3.33	48.90	2.36
5.57	9.56	0.73	7.28	95.30	2265	2548	88.93	4.08	58.11	2.92

## SUSPENSIONS

### Front parabolic suspension :

No. of leaves: 2

### Rear parabolic suspension :

No. of leaves: 2+1

## ML DAY CAB MY2015

### CAB EXTERIOR

#### Day cab and \*sleeper cab :

Forward control cab.

Illuminated steps.

New front grid, new front bumper, new badging.

Pressed steel construction with SMC for vulnerable parts.

External sun visor as option.

Integrated sun visors filter as option (the integrated sun visors filter has been developed as alternative to the external sun visor in order to guarantee to the driver the same protection from the sun with a lower impact on CX factor and consequent reduced fuel consumption).

New handle with an improved ergonomics.

New side deflectors improving air flow keeping door handle clean.

Rear view mirrors:

Euro V range : standard : "mirror 2003/97/CE " (compliant with UNIECE 46)

Euro III range : standard : "tubular arms mirror" (compliant with 88/321/EC)

Cab height:

From ML110EL.. up to ML120EL..: 1 step

from ML120E.. up to ML180E.. and 4x4 models: 2 steps

Fully suspended cab (helical springs and dampers). Reinforced cab suspensions on 4x4 and ML150E..H /ML170E..H models.

Manual or servo assisted tilt to 60 degrees.

Sound and thermal insulation, bumper with integrated headlamps (standard in **plastic** for 4x2 - standard in **steel** for 4x4), spray suppression, 2-speed windscreen with intermittent function. Hood can be raised for daily checks.

Led Day Running Lights (available as option on all the models, except for 4x4 - ML150E..H - ML170E..H and chassiscowl models).

Xenon head lamps (available as option on all the models).

### CAB INTERIOR

#### New standard contains:

New dashboard mold colour.

New light control switch.

New automatic and automated gearbox controls.

New central tunnel module with cup holders, 12 V plug, and ashtray cup.

New door panel (RHD only).

New seats trim.

New instrument Cluster.

Highline Cluster.

New steering wheel.

## MODEL COMPONENTS

Two USB plugs.  
New clima control switches.  
New cards/coins holders.

**Furthermore:** overhead lockers with doors. Glove box. Four speed fan. All gauges monitored using international symbols. Column mounted control stalks. Overhead console for radio and CB. Digital monochrome display, radio preparation (cabling, speaker and aerial), D/N/R buttons for automatic & automated gearbox with manual override on steering column stalk. Dashboard gear lever for manual box. Body builder plug, Adjustable steering wheel. Electric windows. Smocking kit.

### Available options:

Arm rest (for air suspended seats only).  
High comfort driver seat.  
Three way adjustable driver seat, dual fixed passenger seat.  
Air compressor plug.  
Immobiliser.  
Central locking with remote control.  
Additional cab heater.

### Furthermore:

#### Day Cab standard contains:

Rear wall rail with hooks for clothes. Windowless rear wall with document net.

#### Available options for Day Cab:

New mobile office with integrated led light (2 seats configuration). Rear windows.

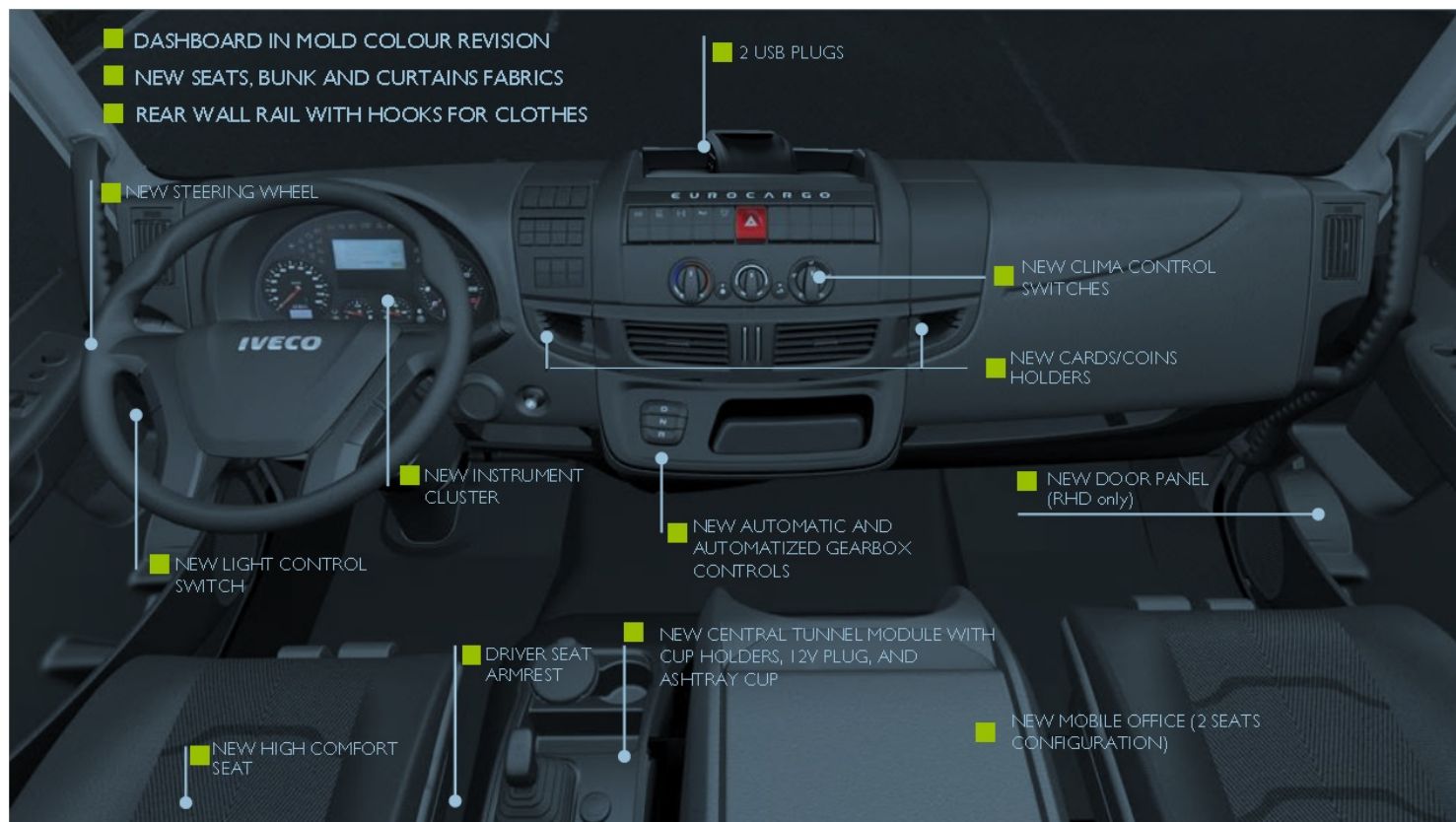
#### Sleeper Cab standard contains:

Courtesy and map reading lights. Bunk.

#### Available options for Sleeper Cab:

High roof. Additional bunk.

**\*Please be aware that the Sleeper cab is not available on road sweeper models**





## MODEL COMPONENTS

### BATTERY

#### Electrics

Batteries capacity V/Ah 12 V / 110 Ah

### BATTERY

#### Electrics

Voltage V 24  
No. of batteries 2  
Batteries capacity V/Ah 12 V / 120 Ah

**Notes:** Std. on all wheelbases except 4x2 model with 3105 mm wheelbase (models with mechanical suspensions)

### MISCELLANEOUS

#### Fuelling :

Fuel tank 115 litres, plastic.

#### Disc Brake :

Diameter :  
**front** 330 x 34 mm ventilated disc.  
Friction area x wheel : 204 cm<sup>2</sup>  
**rear** 330 x 34 mm ventilated disc.  
Friction area x wheel : 204 cm<sup>2</sup>

#### Braking system :

**Type** : Full air. Two independent circuits.  
**Service brake** : ABS (ESP as on option).  
**Parking** : Spring parking brake on rear axle.  
**Emergency** : Combined with parking brake.  
**Air reservoirs** : 2 x 20 litres, steel (25 litres for vehicle with air suspensions).  
**Exhaust brake** : Standard.  
**Air compressor** : 225 cc single cylinder (360 cc as on option; standard with automatic gearbox).  
**Air drier** : Air processing Unit (APU).



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